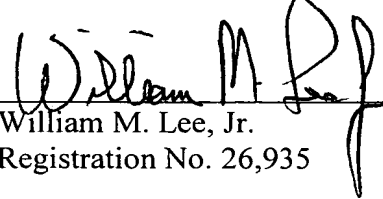


Examination of the divisional application on its merits is awaited.

Dated: November 26, 2001

Respectfully submitted,


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Figure 7 shows the important components of the monitoring system for a chamber such as shown in Figure 1. Each probe 15 connects to an input of a signal processor 50, the output of which is digitised by an A/D converter 52 for supply to a microprocessor 54 which handles the modulation of a radio signal in a transmitter 56 to which signals are supplied from the microprocessor for radiation by an antenna 58. A power supply 60 may comprise a battery. Except for the probe 15 and antenna 58, all the units shown in Figure 7 may be housed within a housing located on the sample holder rotor 5A[,] [S]so that there is no relative movement between it and the probe 15[, the]. The chamber 14 must be constructed so that at least part of its wall is capable of transmitting the radio signals from the antenna.